

US EPA RECORDS CENTER REGION 5



466850

FIELD OVERSIGHT SUMMARY REPORT
ACS NPL SITE
GRIFFITH, INDIANA
Sept. 18, 2000



BLACK & VEATCH
SPECIAL PROJECTS CORP.

101 North Wacker Drive, Suite 1100, Chicago, Illinois 60606, (312) 346-3775, Fax: (312) 346-4781

U.S.EPA
American Chemical Service Inc.

BVSPC Project 46518
BVSPC File C.3
October 28, 2000

Mr. Kevin Adler
Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SR-J6
77 West Jackson Boulevard
Chicago, IL 60604-3590

✓ KA

11/7/2000

Subject: Field Summary Report

Dear Mr. Adler:

Enclosed is a copy of the quarterly groundwater sampling oversight summary report for your review. Quarterly sampling took place during the week of September 18, 2000, at the American Chemical Services Superfund site in Griffith, Indiana. Please call me at 312/683-7857 if you have any questions.

Sincerely,

BLACK & VEATCH SPECIAL PROJECTS CORP.

Chad Gailey
Project Geologist

ctg
Enclosures

cc: L. Campbell, BVSPC w/enclosures

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USEPA/ARCS V
BVSPC Oversight Summary

Reporting Period September 18, 2000

Hours Worked: Approximately 65 hrs.

Site Name/Location: ACS/Griffith, IN

BVSPC Project No.: 46518.238

USEPA Work Assignment Manager: Kevin Adler, RPM Site Manager: Larry Campbell

Personnel Summary Affiliation	No. of Personnel	Responsibility
Lee Orsorz, Montgomery Watson, Addison, IL	1	Respondent's General Contractor
Chad Smith, Rudy Stein, Travis Klingforth, Ian Grabla, Montgomery Watson, Addison, IL	4	Field Sampling Crew (for quarterly groundwater sampling)
Steve Mrkvicka/Chad Gailey, Black & Veatch Special Projects Corp, (BVSPC)	1	USEPA Oversight Contractor

Summary of field activities:

During the week of September 18, 2000, Montgomery Watson conducted quarterly groundwater sampling at the American Chemical Services (ACS) Site. Two Montgomery Watson field sampling crews collected samples from residential wells, monitoring wells within the ACS site boundary, the wetland area, the City of Griffith Landfill, and the areas that lie north, south, and east of the ACS facility. BVSPC's one-man crew conducted oversight of the field activities to ensure that proper sampling techniques were utilized. The standard operating procedure (SOP) for low flow groundwater sampling was adhered to by the sampling team. The BVSPC representative was tasked to collect split samples if the sampling technique differed from the SOP. BVSPC oversaw Montgomery Watson's sample paperwork procedures and decontamination set-up and routine.

Montgomery Watson collected 44 groundwater samples and 5 residential well samples, plus the following types of quality control samples: duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and field equipment rinsate blanks. The monitoring wells sampled by Montgomery Watson are listed in the field logbook notes, which are attached to this report. Montgomery Watson used the low flow sampling technique and monitored for stability of the following groundwater parameters: pH, specific

conductance, temperature, and turbidity. Samples were collected when three consecutive parameter readings were within 10 percent of the previous readings and turbidity readings were less than 10 nephelometric units (NTUs).

Five equipment rinsate blanks were collected by Montgomery Watson to ensure that proper decontamination procedures yielded clean sampling equipment.

BVSPC noted problems with the tubing used to sample the groundwater. Numerous kinks were created installing and extracting the pump during sampling that hindered groundwater flow.

Signature: Chad Gailey

Date: October 28, 2000



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #1
 Date: 09-19-00 Time: 11:00
 Photographer: Steve Mrkvicka
 Description: Photo facing northwest at MW39
 of Chad Smith decontaminating
 the pump and equipment.

Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #2
 Date: 09-19-00 Time: 11:05
 Photographer: Steve Mrkvicka
 Description: Photo facing north at MW39
 sample team lowering pump and
 dedicated tubing into the well.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 3
 Date: 09-19-00 Time: 13:52
 Photographer: Steve Mrkvicka
 Description: Photo facing southeast at MW12
 collecting samples



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 4
 Date: 09-19-00 Time: 14:45
 Photographer: Steve Mrkvicka
 Description: Photo facing west at MW40 of
 the pump being lowered in to the
 well.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 5
 Date: 09-19-00 Time: 15:58
 Photographer: Steve Mrkvicka
 Description: Photo facing west at MW07
 setting up sampling equipment.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 6
 Date: 09-20-00 Time: 09:20
 Photographer: Steve Mrkvicka
 Description: Photo: Sampling MW07 of Travis
 and Rudy filling bottles.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 7

Date: 09-20-00 Time: 11:43

Photographer: Steve Mrkvicka

Description: Photo Taking water level at
MW23 before sampling.

Site: American Chemical Services, Inc.

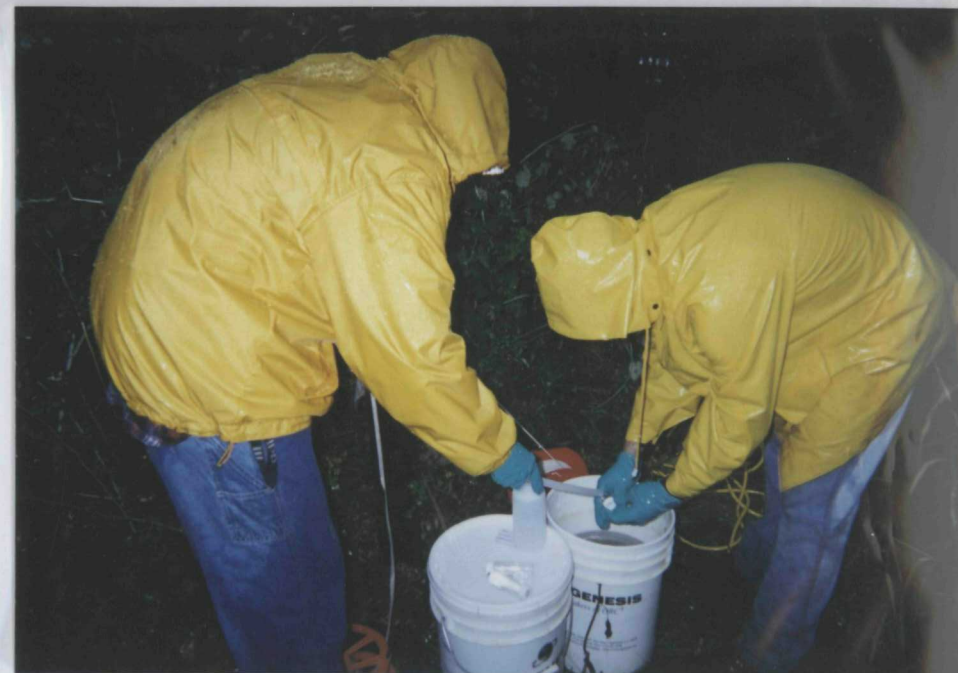
Proj. #: 46517/46518

Roll: 1 Photo #: 8

Date: 09-20-00 Time: 13:50

Photographer: Steve Mrkvicka

Description: Photo Collecting water quality
parameters at MW50.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 9

Date: 09-20-00 Time: 14:30

Photographer: Steve Mrkvicka

Description: Photo Collecting water quality parameters at MW34.

Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 10

Date: 09-20-00 Time: 15:15

Photographer: Steve Mrkvicka

Description: Photo collecting samples from MW34.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 11

Date: 09-21-00 Time: 09:38

Photographer: Steve Mrkvicka

Description: Photo Filling 40ml VOA vials at M4D.

Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 12

Date: 09-21-00 Time: 09:42

Photographer: Steve Mrkvicka

Description: Photo Decontaminating pump and equipment after sampling M4D.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 13
 Date: 09-21-00 Time: 10:45
 Photographer: Steve Mrkvicka
 Description: Photo Purging well at MW41

Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 14
 Date: 09-21-00 Time: 11:38
 Photographer: Steve Mrkvicka
 Description: Photo Decontaminating pump at MW44.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:15
 Date: 09-21-00 Time: 12:37
 Photographer: Steve Mrkvicka
 Description: Photo Filling 40ml VOA vial at
 MW45.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:16
 Date: 09-21-00 Time: 14:15
 Photographer: Steve Mrkvicka
 Description: Photo Pulling out dedicated tubing
 to attach pump at MW32.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:17

Date: 09-21-00 Time: 15:10

Photographer: Steve Mrkvicka

Description: Photo Decontaminating pump at
MW32 to set up on MW31.

Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:18

Date: 09-22-00 Time: 08:25

Photographer: Steve Mrkvicka

Description: Photo Chad and Travis sampling
for VOC's at MW33.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:19
 Date: 09-22-00 Time: 11:30
 Photographer: Steve Mrkvicka
 Description: Photo Pulling pump out of
 MW19.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:20
 Date: 09-22-00 Time: 11:52
 Photographer: Steve Mrkvicka
 Description: Photo Setting up sampling
 equipment at MW06.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:21
 Date: 09-25-00 Time: 08:36
 Photographer: Chad Gailey
 Description: Photo Facing west at ME48 of
 Rudy Stein and Travis Klingforth
 sampling MW48.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:22
 Date: 09-25-00 Time: 08:49
 Photographer: Chad Gailey
 Description: Photo Facing northwest at MW48
 of Rudy Stein pulling the pump
 out of MW48.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:23
 Date: 09-25-00 Time: 09:00
 Photographer: Chad Gailey
 Description: Photo Rudy Stein and Travis
 Klingforth decontaminating the
 pump and equipment.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:24
 Date: 09-25-00 Time: 10:50
 Photographer: Chad Gailey
 Description: Photo Facing northeast at ATM4D
 of Travis Klingforth and Rudy
 Stein installing pump.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:25
 Date: 09-25-00 Time: 11:21
 Photographer: Chad Gailey
 Description: Photo Facing east at ATM4D of
 Travis Klingforth filling a 40ml
 VOA vial.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:26
 Date: 09-25-00 Time: 12:05
 Photographer: Chad Gailey
 Description: Photo Facing south inside the
 water treatment building of Rudy
 Stein decontaminating the pump
 and equipment.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:27
 Date: 09-25-00 Time: 12:25
 Photographer: Chad Gailey
 Description: Photo Inside the water treatment
 building of Travis Klingforth
 pulling a field blank.



⑤0 SMkl 9-19-00

0930 Arrive at ACS treatment plant. Purpose of site visit is to oversee quarterly groundwater sampling event. BVSPC representative is Steve Minkin. Onsite are Lee Orosz, Mont. Watson plant manager and Chad Smith, Travis Kingforth, Jan Grable, and Rudy Stein, Mont. Watson Engineers.

0940 Two MW sampling crews. Chad and Jan are sampling MW38 and MW39. Rudy and Travis sampling MW28, MW18, MW12, MW47.

0950 Meet Rudy and Travis at MW47.

1005 They are done sampling MW47 (south of Reder, east of Colfax Road). Using a Horiba to take their water quality parameters.

1100 Chad and Jan done sampling at MW38. Move to MW39. Disconnecting the Groundfor pump PHOTO 1 at MW39 location. One bucket

SMkl

SMkl 9-19-00 ⑤1

has water and soap, another has plain water.

1105 PHOTO 2 lowering pump into MW39 using dedicated tubing.

1153 Getting ready to sample MW39. Sampling parameters are VOA and metals.

1220 Finish sampling MW39. Other crew finished their second well and broke for lunch.

1230 Break for lunch.

1325 Finish lunch. Go to MW12.

Rudy and Travis are at MW12. They sampled at MW28 - residence at corner of Reder and Colfax.

Note that Chad and Jan had sampled earlier at MW39 before disconnecting the Water Quality parameter meter. They then re-sampled AFTER disconnecting meter.

1352 Sampling MW12. PHOTO 3

1402 Done sampling at MW12. Return to treatment plant.

SMkl

(52)

SMike 9-19-00

1445 Move to MW40 east of Colfax and due east of ACS office. Photo 4 lowering pump into MW40. Pump does not operate so Rudy goes back to treatment plant to get another pump controller. New controller does not work. Try spare pump, which does work.

1525 Start low flow sampling procedures by collecting water quality parameters. Set flow rate on pump for 0.1 gallon per 2 minutes.

1536 Begin sampling at MW40

1545 Complete sampling at MW40.

1555 Move to MW7 located closer to the ACS plant but still east of Colfax Road.

1558 Photo 5 setting up sampling equipment at MW7.

1613 I had gone back to treatment building to get a banger to pull tubing out of the well.

1633 Back to treatment building

SMike

SMike 9-19-00

(53)

because both pump controller boxes are not working.

1703 Chad and Jan finish sampling at MW52.

1720 Rudy and Travis are getting their equipment together at MW7 and heading back to the treatment building because both pump controller boxes have blown fuses in them. They are going to take them apart and try to fix them.

1730 Chad and Jan are going to continue sampling MW13 and MW53.

1735 Leave site for home.

SMike

(54)

SMile 9-20-00

- 0910 Arrive at site. Continue oversight of quarterly groundwater sampling event. I sign in at treatment plant building.
- 0915 I join Rudy and Travis at MW7. Sampling the well at that time. Weather cool cloudy, rain threatening.
- 0920 PHOTO 1 Sampling at MW7. Rudy and Travis are filling bottles. They collect a duplicate at this well. This is the 14th round of groundwater sampling at ACS.
- 0950 Chad and Ian finish up at MW37. They had sampled MW13 earlier this morning.
- 1005 Return to treatment plant building to check on phone calls.
- 1035 Rudy and Travis finish sampling at MW11 east of Colfax just south of railroad tracks. Chad and Ian have gone to get gasoline for generator and ATV.

SMile

SMile 9-20-00

(55)

- Rudy and Travis are heading back to the TP to get rid of purge water.
- 1125 I went out to MW23 where Chad and Ian are sampling the well. I tried to help find MW46 but cat tails are too tall.
- 1143 PHOTO 2 Water level measurements at MW23. Get ready to sample the well. Could not find MW46. Chad and Ian take a duplicate sample.
- 1202 Done sampling at MW23. Returned to treatment bldg.
- 1223 Break for lunch.
- 1339 Return from lunch. Go to MW 50 located SE of Town of Griffith facility.
- 1350 PHOTO 3 MW50 Collecting water quality parameters.
- 1412 Sampling at MW50 done. Gave back to treatment plant.
- 1430 Chad and Ian are sampling

SMile

(56)

SMile 9-20-00

at MW34. RAINING! PHOTO9 Taking GW quality parameters
at MW34.1515 PHOTO 10 Collecting sample
from MW34.1535 Done sampling MW34. move
over to MW14.

1600 I leave site for home

SMile

SMile 9-21-00

(57)

0915 I arrive onsite. Purpose
for visit is continued quarterly
groundwater sampling. I am
replaced by Peter.
One crew is down at Southeast
corner of site; Other crew is
located in landfill.0930 Meet Rudy and Peter at
Giffith landfill well M4P.
Use dedicated tubing that's kept
back at the treatment plant.
The landfill wells have dedicated
bailes in them that are removed
before sampling. PHOTO 11
filling VOA vials at M4D.0938 Rudy and Peter have
sampled M15 earlier today.0942 PHOTO 12 Deconning
pump equipment after
sampling M4D prior to sampling
M4S. Weather is cool 65°
and sunny.1010 Sampling team sampling at
M4S.

1021 Crew done loading equip-

SMile

(58) SMile 9-21-00

ment and are heading back to the treatment plant building. later they will go back to sample more residential wells. Yesterday they sampled 2 of the residential wells. Today they will collect a duplicate and an MS/MSD.

1045 Move over to MW41. Chad and Travis are purging well. They have sampled MW44 already
PHOTO 13 Travis purging at MW41.

1118 Done sampling at MW41.

1135 Back to MW44 to decon the pump.

1138 PHOTO 14 Decon pump at MW44 location. One bucket has soapy water, the other has just water.

1155 Move to MW45 middle of soybean field.

1225 Purging MW45.

1237 PHOTO 15 Filling VO A vials at MW45.

SMile

SMile 9-21-00

(59)

1250 Finish at MW45. Head back to van parked next to bike trail. Erie Lackawanna Trail.

1300 Break for lunch

1415 At MW32. deep well (~100')
PHOTO 16 Holding dedicated tubing pulled out from well. Attach tubing to pump and lower into well.

1445 Purging MW32. Collecting water quality parameters.

NOTE PROBLEM: Many protective well covers do not have functioning tops that are latched and locked. One well is MW45. Another is MW14.

1510 Done sampling MW32.

PHOTO 17 deconning pump wiring at MW32. Set up at MW39.

1600 Done sampling MW31.

1620 Purging MW8

1630 Sampling MW8. MW8 does not have a well cap on

SMile

(60)

SMU 9-21-00

1700 leave site for office

SMU

SMU 9-22-00

(61)

0815 Arrive at site. Continue quarterly groundwater sampling event.

0817 Chad and Travis are at MW33 purging the well.

0825 PHOTO 18 Chad and Travis finish SRM sampling for VOCs at MW33. They collect a duplicate sample.

0855 Begin purging at MW30. Well is approximately 65'.

0943 Purging MW30.

1010 Parameters stabilized. Get ready to sample MW30. Walk over to MW49 where Rudy and Peter.

1030 Done sampling at MW49.

1043 I move over to Chad and Travis, who are purging water from MW51.

1110 Getting ready to sample MW51.

1130 At MW19 behind house PHOTO

19 Removing pump from well.

Just finished sampling well.

1152 Setting up sampling

SMU

(62)

SMil 9-22-00

equipment at MW6 PHOTO
#1201215 Done sampling at MW6.
Head back to treatment
plant.

1230 Break for lunch.

1310 Return from lunch. Head
over to MW29 next to MW9R.
Chad and Travis are starting
to purge the well.

1400 leave site.

SMil

(63)

Chad Daley 09/25/00

08:34 ARRIVED @ MW-48, Weather
OVERCAST Temp 61°F, very Light BREEZE.08:36 PICTURE #11, Facing West @ MW48
of Rudy Stein AND Travis, KlingForth
Hill a Poly.08:49 PICTURE #12, Facing NW @ MW48
of Rudy Stein pulling the pump screen
the well.08:54 Moving to New Location, but will
First Decon. Pump & Equipment.09:00 PICTURE #13, Facing West @ Near North Tracks
of Rudy Stein & Travis KlingForth Deconing
the pump. Grub to09:14 Travis KlingForth has to go to ACS
Safety Train to go on site.10:42 TRAVIS KlingForth & Rudy Stein ARRIVE
@ MW4, This well is located inside
the ACS facility site, Northwest corner.
Depth To water 17.5 feet10:50 PICTURE #17, Facing NE @ ATM W4 D
of Travis & Rudy hooking pump up
to Dedicated Tubing10:52 Setting up Horiba to Take WATER
Quality parameters.

Chad Daley

(64)

Chad Lutz OK 2/20

11:20 Final Parameters @ ATMW4D

PH Core Tab DO Temp ORP

7.04 .102 79 2.5 145 774

DTW 24.05

11:21 Picture #15 Facing East @ ATMW4D
of Travis filling a 40al VON
for BTEX

11:50 Finish ATMW4D, TRAVIS & Ray will
Return to Water treatment Building
to Dump purge WATER, AND Decon
Pumping Equipment

12:05 Decontam Equipment
Picture #16 Facing South inside
WTB of Pump Decontam Pump

12:25 Picture #21 Inside WTB of
Travis fill a Poly for a Fick Bank

12:26 Filling Bottles for Fick Bank

13:05 Finished Decontam/Sampling,
One of the Residential wells,
were not Sample due to inability
to gain access.

13:40 Resubmit Critical Back well
Sample ON 09/27/00.

Chad Lutz